

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/570590	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/25 15:24
S2	4	("20030136355"   "3756456"   "4449650"   "4874299").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/26 09:08
S3	33	("0012364"   "1196552"   "1782407"   "1926074"   "2027879"   "2216703"   "2254495"   "2898860"   "3515966"   "3588291"   "3814552"   "4370107"   "4518317"   "4562385"   "4607627").PN. OR ("4874299").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/26 09:10
S4	45	("0012364"   "1196552"   "1782407"   "1926074"   "2027879"   "2216703"   "2254495"   "2809589"   "2814429"   "2898860"   "3273505"   "3410059"   "3515966"   "3572980"   "3588291"   "3814552"   "4370107"   "4518317"   "4562385"   "4607627").PN. OR ("3814552"   "4874299"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 08:52
S5	816	417/413.1.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 08:53
S6	6	S5 and "high resolution"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 08:56
S7	26	"high resolution" with "linear actuator"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 08:57
S8	75	S5 and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:08

S9	33	("0012364"   "1196552"   "1782407"   "1926074"   "2027879"   "2216703"   "2254495"   "2898860"   "3515966"   "3588291"   "3814552"   "4370107"   "4518317"   "4562385"   "4607627").PN. OR ("4874299").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:13
S10	4	S4 and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:14
S11	658	"417".clas. and diaphragm and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:15
S12	319	"417".clas. and diaphragm and mm and piston	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:15
S13	123	"417".clas. and diaphragm and mm and piston and (solenoid or actuator)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:15
S14	241	diaphragm and (mm with piston) and (solenoid or actuator)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:21
S15	985	417/417.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:27
S16	57	417/417.ccls. and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:27
S17	1	"3819305".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:38
S18	0	"3819305".pn. and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:38
S19	17	("2785638"   "2790580"   "3610782").PN. OR ("3819305").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:41
S20	26	("2297084"   "2638849"   "2785638"   "2864116"   "2951556"   "3118383"   "3424090"   "3741687"   "3819305").PN. OR ("4150922").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:47

S21	0	"417".clas. and (increments with mm with piston) and (solenoid or actuator)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:49
S22	9	(increments with mm with piston) and (solenoid or actuator)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:49
S23	1	"417".clas. and (precision).ti. and (increments with piston) and (solenoid or actuator)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:53
S24	16	(precision).ti. and (increments with piston) and (solenoid or actuator)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:53
S25	17	"417".clas. and (precision).ti. and (mmwith piston) and (solenoid or actuator)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:54
S26	1	"417".clas. and (precision).ti. and (mm with piston) and (solenoid or actuator)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:54
S27	2	"417".clas. and (precision).ti. and (mm and piston) and (solenoid or actuator)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:55
S28	32	"417".clas. and (increments with piston) and (solenoid or actuator)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 09:56
S29	3	(increments with mm with plunger) and (solenoid or actuator)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:09
S30	1	(increments with mm with diaphragm) and (solenoid or actuator)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:11
S31	88	417/415.ccls. and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:11
S32	1387	417/415.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:12
S33	231	"417".clas. and (piston or plunger) and resolution	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:18

S34	68	"417".clas. and (piston or plunger) and resolution and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:19
S35	9	"417".clas. and (piston or plunger) and (resolution same mm)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:19
S37	272	"417".clas. and (piston or plunger) and mm and fuel	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:21
S38	137	"417".clas. and ((piston or plunger) same mm) and fuel	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:21
S39	8	("3302582"   "4306842"   "4632645"   "4643653"   "4895495"   "5073095").PN. OR ("6273689").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:27
S40	29	("0249557"   "0727069"   "2725183"   "3058140"   "3134125"   "3568712"   "3814552"   "4181477").PN. OR ("4573888").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:31
S41	35	"417".clas. and (piston or plunger) and "gear reduction" and diaphragm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:32
S42	75	417/413.1.ccls. and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:33
S43	350	"417".clas. and (piston or plunger) and diaphragm and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:37
S44	96	S43 and gear\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:37
S45	29	("1711803"   "1999675"   "2742785"   "3000320"   "3503307"   "3722506").PN. OR ("3947156").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:49
S46	50	"417".clas. and (precision or accuracy). ti.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:50
S47	7	"417".clas. and (precision or accuracy). ti. and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 10:53

S48	0	"417".clas. and (increments with mm with piston)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:30
S49	2	"417".clas. and (increments same mm same (piston or plunger))	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:30
S50	13	("2774364"   "4275823"   "5060825"   "5199604"   "5388725"   "5762098"   "6269978").PN. OR ("6739478").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:33
S51	22	"417".clas. and mm and (piston or plunger) and "linear actuator"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:34
S52	56	bertheaud.xa.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:36
S53	4	("4276003"   "4277706"   "6068198"   "7293967").PN. OR ("7537437").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:36
S54	20	("1085818"   "1580131"   "2807213"   "3204858"   "3250225"   "4182599"   "4569378"   "4639245"   "5415528"   "5577433"   "6068198"   "6079959").PN. OR ("7293967").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:38
S55	38	("0845351"   "1435892"   "1552068"   "1713219"   "2505253"   "2932255"   "4145165").PN. OR ("4276003").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:39
S56	1	S53 and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:42
S57	2	S54 and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:42
S58	1	S55 and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:43

S59	96	( "0845351"   "1085818"   "1435892"   "1552068"   "1580131"   "1713219"   "2505253"   "2807213"   "2932255"   "2956188"   "2978621"   "3159758"   "3204858"   "3250225"   "3278774"   "3402308"   "3433983"   "3515966"   "3548227"   "3660704"   "3829726"   "4145165"   "4182599"   "4198872"   "4424738"   "4569378"   "4639245"   "5253981"   "5292036"   "5415528"   "5547131"   "5577433"   "5960693"   "6068198"   "6079959" ).PN. OR ( "4276003"   "4277706"   "6068198"   "7293967" ).URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:43
S60	8	S59 and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:43
S61	616	( "0012364"   "0249557"   "0727069"   "0845351"   "1085818"   "1172581"   "1196552"   "1218903"   "1345902"   "1435892"   "1471820"   "1490141"   "1552068"   "1580131"   "1695305"   "1711803"   "1713219"   "1782407"   "1926074"   "1999675"   "2027879"   "2216703"   "2254495"   "2297084"   "2442631"   "2463766"   "2482464"   "2505253"   "2638849"   "2679353"   "2693767"   "2721024"   "2725183"   "2742785"   "2774364"   "2785638"   "2790580"   "2807213"   "2809589"   "2814429"   "2853229"   "2864116"   "2881749"   "2898860"   "2914240"   "2932255"   "2943508"   "2951131"   "2951556"   "2954917"   "2956188"   "2978621"   "2979964"   "3000320"   "3026909"   "3036529"   "3058140"   "3118383"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:46

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"3169647"	"3199341"
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"3273505"	"3278774"
"3282219"	"3302582"
"3356404"	"3387566"
"3397643"	"3402308"
"3402667"	"3410059"
"3424090"	"3428042"
"3433983"	"3439622"
"3447479"	"3461806"
"3462073"	"3468257"
"3501899"	"3502026"
"3503307"	"3514231"
"3515966"	"3542495"
"3544065"	"3545896"
"3548227"	"3556679"
"3556684"	"3568712"
"3572980"	"3588291"
"3601509"	"3610782"
"3635598"	"3653787"
"3660704"	"3722506"
"3741687"	"3775025"
"3779544"	"3781140"
"3781141"	"3814541"
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"4198872"	"4225290"
"4255096"	"4275823"
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"4326837"	"4345483"
"4347131"	"4370107"
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"4424738"	"4437815"
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"4509901"	"4518317"

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"4562385"	"4566868"
"4568250"	"4569378"
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"4636149"	"4636238"
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"2638849"	"2869474"
"3795464"	"3814552"
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"3953152"	"4021151"
"4150922"	"4150924"
"4276003"	"4277706"
"4474537"	"4509904"
"4573888"	"4743169"
"4808089"	"4874299"
"4883467"	"4936758"
"4950134"	"5201636"
"5785508"	"6068198"
"6092995"	"6139288"



		"6234771"   "6267568"   "6273689"   "6334761"   "6471025"   "6565333"   "6739478"   "6964263"   "7293967"   "7537437"). URPN.				
S62	69	S61 and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:47
S63	65952	(metering pump).ti.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:52
S64	26446	"417".clas. and (metering pump).ti.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:52
S65	224	"417".clas. and ("metering pump").ti.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:53
S66	16	("1966498"   "1996498"   "3554673"   "4065230"   "4196730"   "4288206"   "4652260"   "4804368"   "4976696"   "5176502"   "5492535"   "5800397"   "5814015").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:55
S67	0	S66 and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:56
S68	267	("1383527"   "2531267"   "2627270"   "2671448"   "2702547"   "2879767"   "3279653"   "3623474"   "3701345"   "3714943"   "3767875"   "3858581"   "3880138"   "3886938"   "3985133"   "4006736"   "4024864"   "4077405"   "4085747"   "4132231"   "4136802"   "4191187"   "4202333"   "4228922"   "4298000"   "4333459"   "4381006"   "4427006"   "4430079"   "4435173"   "4437859"   "4465474"   "4469481"   "4470317"   "4475666"   "4493704"   "4529401"   "4544369"   "4560979"   "4581509"   "4627839"   "4684767"   "4685903"   "4695271"   "4703161"   "4741732"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:58

		"4767406"   "4791258"   "4794215"   "4804368"   "4838857"   "4931041"   "4976696").PN. OR ("1966498"   "3554673"   "4196730"   "4652260"   "4804368"   "4976696"   "5176502").URPN.				
S69	43	S68 and mm	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 11:58
S70	66	("3623474"   "3701345"   "4191187"   "4529401"   "4741732"   "4767406"   "4804368"   "4838857"   "4931041"   "4976696").PN. OR ("5176502").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 12:35
S71	28	("20020040208"   "20020072733"   "20020077588"   "3812843"   "4652260"   "4978335"   "5110475"   "5176502"   "5176646"   "5244461"   "5317506"   "5401253"   "5528923"   "5611344"   "5647851"   "5686060"   "5690618"   "5772443"   "5806519"   "5840026"   "5896804"   "5997502"   "6063052"   "6090064"   "6317623"   "6402717"   "6402718"). PN. OR ("6726650"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 12:45
S72	36	("2956188"   "2978621"   "3159758"   "3278774"   "3402308"   "3433983"   "3515966"   "3548227"   "3660704"   "3829726"   "4198872").PN. OR ("4277706").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 13:34
S73	7	417/413.1.ccls. and "linear actuator"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 13:34
S74	337	(piston with diaphragm) and "linear actuator"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 13:36
S75	53	"417".clas. and (piston with diaphragm) and "linear actuator"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 13:36

S76	2367	"417".clas. and (piston with diaphragm)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 13:38
S77	993	"417".clas. and (piston with diaphragm) and "check valve"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 13:38
S78	282	417/413.1.ccls. and (piston or plunger)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 13:39
S79	22	("1599899"   "2146398"   "2634684"   "20040131472"   "3119280"   "3373694"   "3884597"   "4035107"   "4049366"   "4050861"   "4256020"   "4993925"   "5461966"   "5518375"   "5533886"   "5554014"   "6019135").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 13:41
S80	62	(US-20030000965-\$ or US-20050106051-\$ or US-20040076526-\$).did. or (US-4874299-\$ or US-3814552-\$ or US-4573888-\$ or US-6267568-\$ or US-6092995-\$ or US-6964263-\$ or US-6565333-\$ or US-4883467-\$ or US-4808089-\$ or US-4474537-\$ or US-4150924-\$ or US-4150922-\$ or US-3819305-\$ or US-6334761-\$ or US-6471025-\$ or US-4021151-\$ or US-6273689-\$ or US-3795464-\$ or US-5785508-\$ or US-4743169-\$ or US-3947156-\$ or US-5201636-\$ or US-3953152-\$ or US-4936758-\$ or US-4950134-\$ or US-6739478-\$).did. or (US-7537437-\$ or US-7293967-\$ or US-6068198-\$ or US-4276003-\$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 13:53

		4277706-\$ or US- 6234771-\$ or US- 6139288-\$ or US- 4509904-\$ or US- 5176502-\$ or US- 4976696-\$ or US- 4804368-\$ or US- 4652260-\$ or US- 4196730-\$ or US- 5236416-\$ or US- 5101679-\$ or US- 4336000-\$ or US- 7534239-\$ or US- 7500959-\$ or US- 6726650-\$ or US- 4838857-\$ or US- 4191187-\$ or US- 3701345-\$ or US- 5518375-\$ or US- 6884045-\$ or US- 6758657-\$ or US- 6568926-\$ or US- 6086340-\$).did. or (US- 5284425-\$).did. or (US- 2638849-\$ or US- 2869474-\$ or US- 3554673-\$ or US- 1966498-\$ or US- 1599899-\$).did.				
S81	23	S80 and cylinder	USPAT; USOCR	OR	OFF	2010/01/26 13:54
S82	111	417/413.1.ccls. and (piston or plunger) and cylinder	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 13:54
S83	15	("3250225"   "3769879"   "3855995"   "4035107"   "4265600"   "4269906"   "4466339"   "4846636"   "5145331"   "5192198"   "5306122").PN. OR ("5452993").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 13:57
S84	16	("3250225").URPN.	USPAT	OR	OFF	2010/01/26 13:59
S85	4	"417".clas. and additive and "fuel system"	USPAT	OR	OFF	2010/01/26 15:32
S86	2	"417".clas. and additive and "dosing pump"	USPAT	OR	OFF	2010/01/26 15:33
S87	3	"417".clas. and additive and "dosing pump"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 15:33

S88	95	"417".clas. and additive and "fuel"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 15:33
S89	56	"417".clas. and additive and "fuel" and piston	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 15:33
S90	166	((SHINYA) near2 (YAMAMOTO)).INV.	US-PGPUB; USPAT	OR	OFF	2010/01/26 15:35
S91	12	((SHINYA) near2 (YAMAMOTO)).INV. and additive	US-PGPUB; USPAT	OR	OFF	2010/01/26 15:39
S92	0	((SHINYA) near2 (YAMAMOTO)).INV. and additive and piston	US-PGPUB; USPAT	OR	OFF	2010/01/26 15:40
S93	15	((MAKOTO) near2 (YOSHIKAWA)).INV.	US-PGPUB; USPAT	OR	OFF	2010/01/26 15:40
S94	0	((MAKOTO) near2 (YOSHIKAWA)).INV. and additive and piston	US-PGPUB; USPAT	OR	OFF	2010/01/26 15:40
S95	7	((TAKAO) near2 (MISHINA)).INV.	US-PGPUB; USPAT	OR	OFF	2010/01/26 15:40
S96	0	((TAKAO) near2 (MISHINA)).INV. and additive and piston	US-PGPUB; USPAT	OR	OFF	2010/01/26 15:40
S97	20	((MAMORU) near2 (KUWAHARA)).INV.	US-PGPUB; USPAT	OR	OFF	2010/01/26 15:40
S98	0	((MAMORU) near2 (KUWAHARA)).INV. and additive and piston	US-PGPUB; USPAT	OR	OFF	2010/01/26 15:41
S99	4396	additive and "fuel" and piston	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 15:44
S100	339	additive and "fuel system" and piston	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 15:44
S101	45	(additive with pump) and "fuel system" and piston	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 15:45
S102	9	("3620424"   "4161160"   "4621593"   "5421295").PN. OR ("6321692").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/01/26 15:49

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